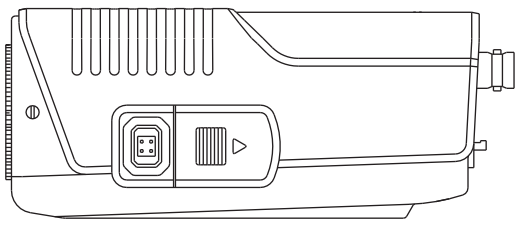
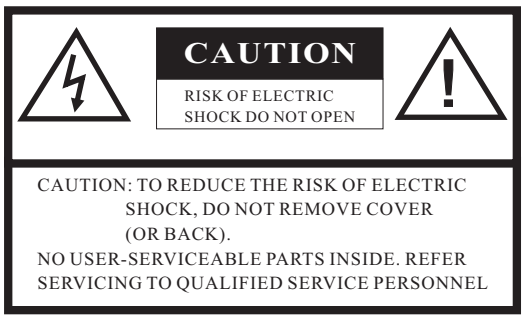
INNOVI



High Resolution Color Camera
User Manual

YR-680U

Thank you for your purchasing this product. Before attempting to connect or operate this product, please read these instructions carefully and save this manual for future use.


CAUTION
RISK OF ELECTRIC
SHOCK DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC
SHOCK, DO NOT REMOVE COVER
(OR BACK).
NO USER-SERVICEABLE PARTS INSIDE. REFER
SERVICING TO QUALIFIED SERVICE PERSONNEL

DESCRIPTION

YR-680U employs 1/3" High Sensitivity CCD and HAWK DSP image processing technology, 3-DNR, whose operating speed is 100 times higher than the traditional one's. Its resolution is as high as 600TVL. When light change reaches a certain value, sense up switches on automatically, which greatly increases image sensitivity and makes it get perfect pictures under any light and truly reaches the starlight level sensitivity. It supports BLC, White Balance, AGC, Flicker Prevention, Motion Detection, Privacy and other functions. The advanced digital noise reduction eliminates the noises effectively, making the picture clearer and brighter.

Advanced image processing technology, realizes 600TVL, high definition and bright images

420 TV Line

600 TV Line

PRECAUTIONS

1. Use the appropriate power
   The input power for YR-680U is DC12V/AC24 . Be sure to connect it to the appropriate power. Wrong connection may cause malfunction and/or damage to the camera.
2. Do not attempt to disassemble the camera.
   To avoid electric shock, do not remove screws or camera housing. There are no user serviceable parts inside. Ask a qualified service person for servicing.
3. Handle the camera with care.
   Do not abuse the camera. Avoid striking, shaking, etc. The camera could be damaged by improper handling or storage.
4. Do not expose the camera to rain or moisture, or try to operate it in wet areas.
   Do not place the camera in the following locations:
   ①Locations where temperature is lower than -10C or higher than 50C;
   ②Locations where humidity is higher than 95%;
   ③Locations where there are large amounts of water vapor and steam.
5. Do note use strong or abrasive detergents when cleaning the camera body.
   Use a dry cloth to clean the camera when dirty. In case the dirt is hard to remove. Use a mild detergent and wipe gently.
6. Clean the CCD faceplate with care.
   When cleaning the CCD panel, do not use strong or abrasive detergents. Use a piece of lens tissue or cotton tipped applicator and ethanol.
7. Do not attempt to aim the camera at the sun
   Do not attempt to aim the camera at the sun or other extremely bright objects that cause smear to appear irrespective of whether the camera is operating or not. This can damage the CCD (Charge Coupled Device).
8. Do not put the camera in a place with interference.
   When this camera is installed near the equipment like wireless communication device which emits strong electromagnetic field, some irregularity such as noise on monitor screen may happen.

FEATURES

Digital WDR

Advanced digital WDR technology greatly improves the effect to gain bright images in dark.

High Resolution

Horizontal 600 TVL High Resolution

HLC

Automatically distinguish strong light piont, shield the strong light on the image to improve the definition of the image for better surveillance.

3-DNR (Digital Noise Reduction)

adopt special caculation rules,reduce the noise of video and color, improve the definition of the image, create clear and scrip images.

DC12V/AC24 Duplicate Supply Design

Compatible with DC12V and AC24V. It can switch over to the suitable mode according to the input power supply.

OSD Menu

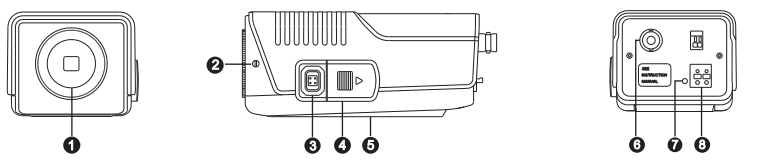
Powerful menu operation function, which can set all functions of the camera.

Day & Night

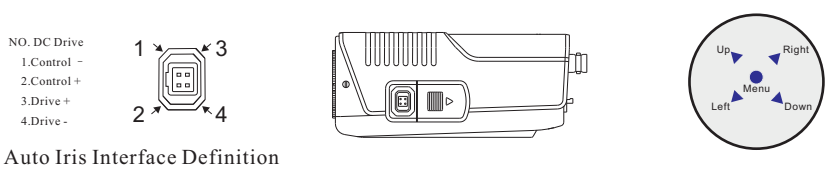
Adopt the color mode in day, when the light is enough; at night when the illumination is lower, higher sensitivity and image quality are needed, so it changes to W/B mode automatically.

PARTS INSTRUCTION

Function Instruction



1、CS-Mount Lens Adapter 2、 Back Focal Length Fixing Screws 3、Auto Iris Lens Interface 4、OSD menu
5、Bracket Screw Fixing Hole 6、video out 7、PWR: Power Indicator LED 8、Power in



Auto Iris Interface Definition

OSD Function Setting:

Menu: OSD Menu,choose OSD menu or quit.
Up/down:Up and Down button moves vertically
Left/right:Left and Right moves horizontally or modify parameters, with "↵" means with inferior menu setting, press"Left/Right" for setting, "back " for superior menu setting.

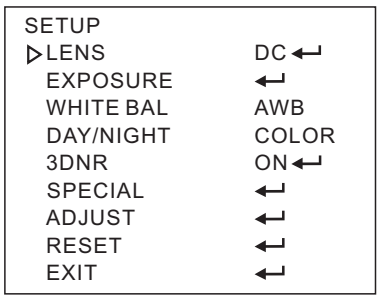
Dimension

SPECIFICATIONS

Model			YR-680U
Sensor	Sensor		1/3" High Sensitivity CCD
	Video Format		PAL/NTSC
	Resolution		600TVL
	Mini Illumination		0.01Lux
	S/N Ratio		⩾50dB（AGC Off）
OSD Menu	Sense Up		4×.8×.16×. 32×.64×.128×.256×.Off
	AGC		Low、Middle、High、Off
	BLC		On；Off；High light Suppression
	Iris Control		Electronical Iris/Auto Iris (DC Driver)
	Electronic Shutter		1/60(1/50)-1/100000 Second
	White Balance	Mode	Manual, Auto Tracing, Automatical
		Range	(Automatical) 2200~10000° K
	Mirror		Horizontal, Vertical, Rotation
	Day&Night		Auto、Color、Monochrome
	Motion Detection		On/Off
	Privacy		On/Off
	Adjustment		Brightness, Sharpness
	Title		On/Off（Max15Characters）
	3-DNR		On/Off
	Digital WDR		Off; Indoor; Outdoor
	Sync Mode		Internal
Power	Voltage		DC12V/AC24V
	Current		<100mA
Lense			CS Mount
Operating Temperature			-10 ℃~50 ℃
Storage Temperature			-20 ℃~50 ℃
Dimension(mm)			136(L) * 56(H) * 70(W)
Weight			450g

.Specifications subject to change without notice.

Main Menu: 主菜单

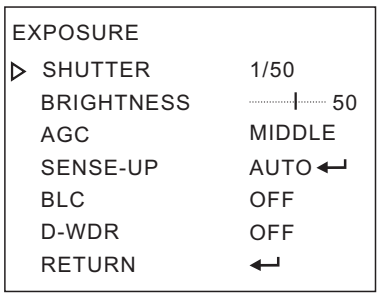


LENS : 镜头：

1、Click the MENU button to show the main menu, and move the cursor to EXPOSURE. Use left and right buttons to set "LENS". MANUAL: manual Iris lens; DC: DC driver Iris lens. When set as DC driver, brightness range can be set between 1~100.

EXPOSURE : 调整：

1、Click the MENU button to show the main menu, and move the cursor to EXPOSURE by up and down buttons. Click MENU button to enter setting.

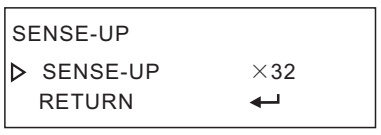


2、Move the cursor to SHUTTER, and set SHUTTER by left and right buttons: 1/50,FLC,1/250, 1/500, 1/2000, 1/5000, 1/10000, 1/100000.

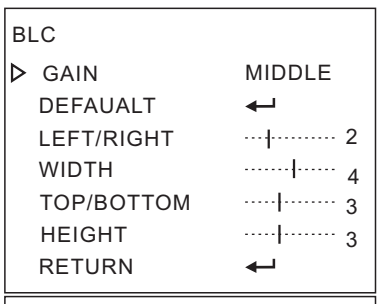
3、Move the cursor to BRIGHTNESS, and set BRIGHTNESS by left and right buttons between 0-1009 (only available when the lens is in manual mode and shutter in auto mode.)

4、Move the cursor to AGC, and set AGC by right and left buttons: LOW; MID; HIGH; OFF.

5、Move the cursor to SENSE UP, and set SENSE UP by left and right buttons: ×4: 4 times; ×8: 8times ; ×16: 16times; ×32: 32times; ×64: 64times; ×128: 128 times; ×256: 256times; OFF (only available when the lens is in manual mode and shutter in auto mode; when the lens is set as DC and shutter set as fixed 1/50）



6、Move the cursor to BLC, and set BLC by left and right buttons: OFF; BLC; HSBLC

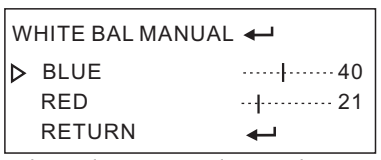


7、Move the cursor to D-WDR ,and set D-WDR by right and left buttons: Off; Indoor; Outdoor.

WHITE BAL: 白平衡

1、Click the MENU button to show the main menu, and move the cursor to WHITE BAL by up and down buttons. Click the MENU button to enter setting.

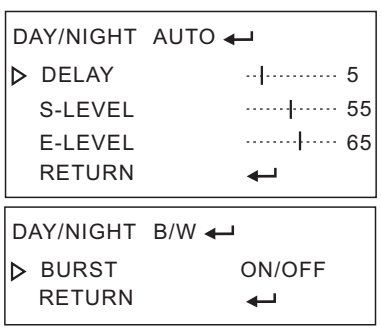
2、Move the cursor to WHITE BAL, and set WHITE BAL by left and right buttons: MANUAL: Manual White Bal; ATW: Auto Tracing White Bal; AWB: Automatical White Bal; When set as MANUAL, its color temperature can be set: RED: 0~100; BLUE: 0~100



DAY/NIGHT: 日夜切换

1、Click the MENU button to show the main menu, and move the cursor to DAY/NIGHT by up and down buttons. Click the MENU button to enter setting.

2、Move the cursor to DAY/NIGHT, and set DAY/NIGHT by left and right buttons: AUTO: atuo color to black; COLOR; B/W: black and white.



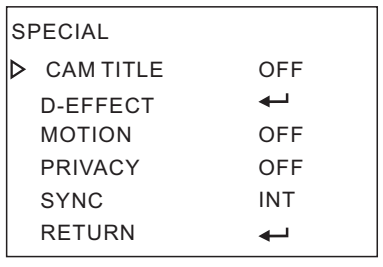
3DNR : 3D降噪

1、Click the MENU button to show the main menu, and move the cursor to 3DNR by up and down buttons. Click the MENU button to enter setting.

2、Move the cursor to 3DNR, and set 3DNR by left and right buttons: OFF; ON: range 0～100;

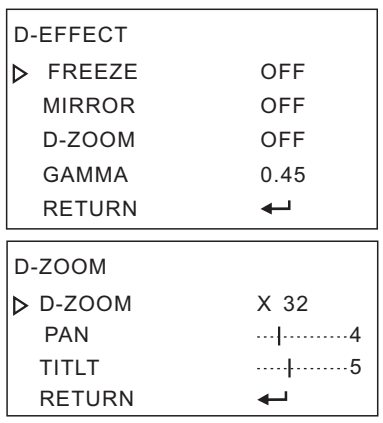
SPECIAL: 特殊功能

1、Click the MENU button to show the main menu, and move cursor to SPECIAL by up and down buttons. Click the MENU button to enter setting.

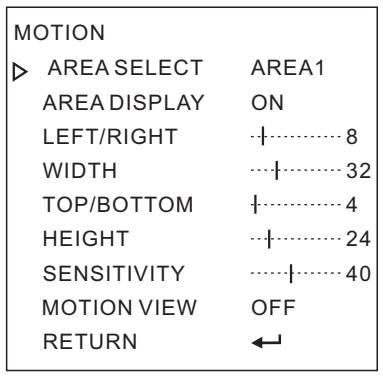


2、Move the cursor to CAM TITLE, and set CAM TITLE by left and right buttons: OFF/ON. It can edit 15 Cam Title at most.

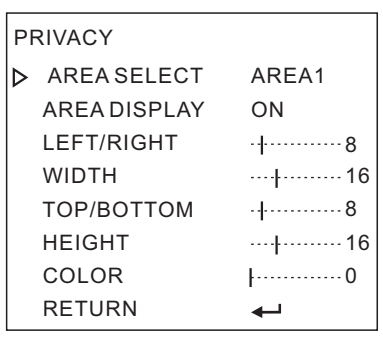
3、Move the curosr to D-EFFECT, and set D-EFFECT by left and right buttons: FREEZE: OFF/ON; MIRROR: OFF; MIRROR: horizontal mirror; V-FLIP: vertical mirror; ROTATE; D-ZOO: OFF/ON. It can make a 32 times digital magnification to the picture and set Gamma between 0.05~1.



4、Move the cursor to MOTION, and set MOTION by right and left buttons: OFF/ON.
When MOTION is set as ON, it can set:
Motion Area: motion area is divided into 4 areas; AREA DISPLAY: OFF/ON.
Area Position: LEFT/RIGHT; TOP/BOTTOM;
Area Size: WIDTH; HEIGHT; SENSITIVITY: 0~40 level



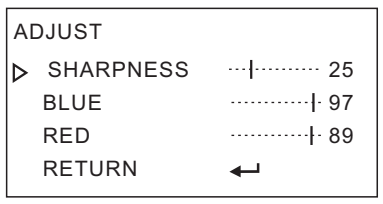
5、Move the cursor to PRIVACY, and set PRIVACY by left and right buttons: OFF/ON.
When PRIVACY is on, it can set:
Privacy Area: privacy area can be divided into 8 areas; AREA DISPLAY: OFF/ON;
Area Position : LEFT/RIGHT; TOP/BOTTOM;
Area Size: WIDTH: HEIGHT; Color: 0~15 level



ADJUST: 调节

1、Click the MENU button to show the main menu, and move the cursor to ADJUST by up and down buttons. Click MENU button to enter setting.

2、Move the cursor to SHARPNESS, and use left and right buttons to set: SHARPNESS value: 0~31; BLUE: 0~100; RED: 0~100



RESET: 复位

Recover as factory default.

EXIT: 退出

Exit menu after setting is finished.